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# INPUTS 2013.1

Survey	INPUTS 2013.1		
Start date	January, 1 2013		
Supervisor	dr. C. Weykamp MCA Laboratory Streekziekenhuis Koningin Beatrix Winterswijk		
Subscriptions	93		
Result sets	91		

Scores	Your score	MAP	reported
Quantitative	28	38	

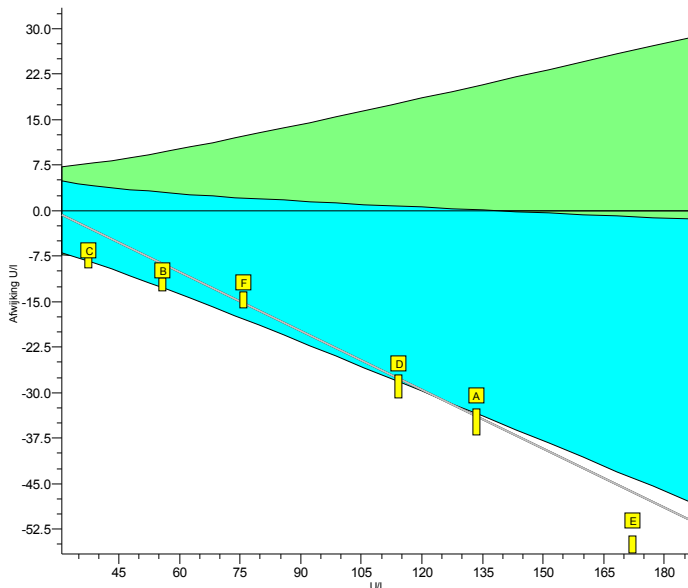
# INPUTS 2013.1

Analyte		Trueness				Precision		Performance			
		your mean	ref.	cons.	SDtI	your prec.	SDbl	this survey	PS	cumulative PSc	
ALAT	U/l	75.7	98.2	86.9	10.1	3.1	2.7		0		0
Alk. Phosphatase	U/l	165	188	173	15	3	2		1		1
Amylase	U/l	206	207	201	8	3	2		2		2
ASAT	U/l	63.7	78.6	71.5	6.8	0.6	1.6		0		0
Calcium	mmol/l	2.48	2.46	2.47	0.07	0.03	0.02		2		2
Chloride	mmol/l	101.6	101.4	102.3	1.8	1.1	0.9		1		1
CK	U/l	240	244	253	18	1	3		2		2
Creatinine	µmol/l	149.2	149.1	150.9	7.1	5.2	4.2		1		1
eGFR (F, 55, white)	ml/min/1,73m <sup>2</sup>	37.5	37.6	37.6	2.7	1.6	1.5		2		2
Gamma-GT	U/l	85.8	87.7	86.3	8.6	1.9	1.2		2		2
Glucose	mmol/l	14.10	13.93	14.19	0.44	0.18	0.18		2		2
LD	U/l	970	532	895	321	20	16		0		0
Magnesium	mmol/l	1.23	1.22	1.23	0.04	0.01	0.02		2		2
Potassium	mmol/l	5.37	5.39	5.30	0.10	0.04	0.04		2		2
Sodium	mmol/l	143.5	144.0	142.7	1.7	1.9	0.9		1		1
Total Protein	g/l	65.2	66.8	66.0	1.8	0.3	0.7		2		2
Urate	µmol/l	361	376	374	15	3	4		2		2
Cholesterol	mmol/l	5.10	5.07	5.15	0.14	0.04	0.05		2		2
HDL-Cholesterol	mmol/l	1.23	1.14	1.17	0.06	0.01	0.03		2		2
<b>Total :</b>									<b>28</b>		<b>28</b>

# INPUTS 2013.1

ALAT

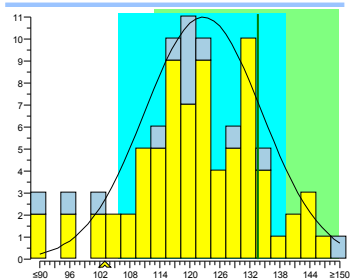
units: U/I



	2013.1	cumulative
Trueness	-23%	-23%
Precision	3.6%	3.6%
Number	6	6
Outliers	0	0
Sigma-TE	-0.9 <span style="border: 1px solid red; padding: 2px;">0</span>	-0.9 <span style="border: 1px solid red; padding: 2px;">0</span>
Sigma-SA	-1.7	-1.7
Score pictogram		
Regression line	$9.2 + 0.677 \cdot x$	$9.2 + 0.677 \cdot x$

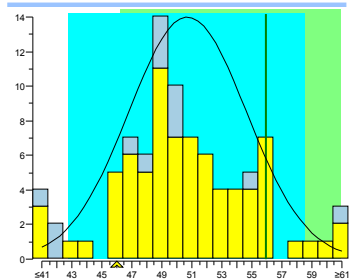
Consensus group IFCC traceerbaar  
Method IFCC traceable

2013.1 A



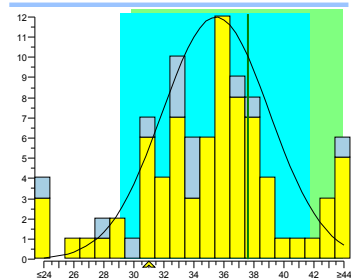
	cons.	meth.	ref.	lab
mean	122.7	122.7	133.5	103
SD	11.8	11.8		
n	75	75		
no	1	1		

2013.1 B



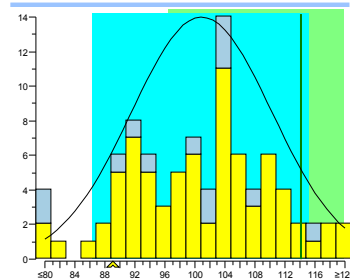
	cons.	meth.	ref.	lab
mean	50.7	50.7	55.9	46
SD	3.9	3.9		
n	76	76		
no	3	3		

2013.1 C



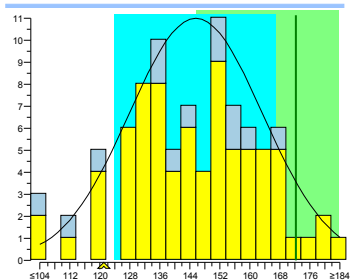
	cons.	meth.	exp.	lab
mean	35.5	35.5	37,6	31
SD	3.6	3.6		
n	76	76		
no	7	7		

2013.1 D



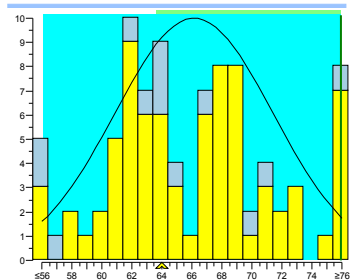
	cons.	meth.	ref.	lab
mean	100.9	100.9	114.2	89
SD	9.4	9.4		
n	76	76		
no	3	3		

2013.1 E



	cons.	meth.	ref.	lab
mean	146	146	172.2	121
SD	18	18		
n	77	77		
no	1	1		

2013.1 F



	cons.	meth.	ref.	lab
mean	66.1	66.1	75.9	64
SD	5.3	5.3		
n	77	77		
no	3	3		

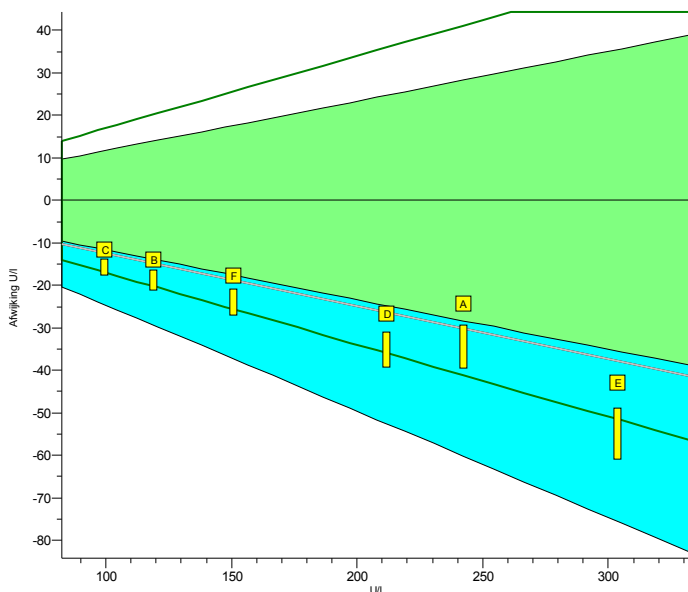
Legend

  IFCC traceable      IFCC non-traceable

# INPUTS 2013.1

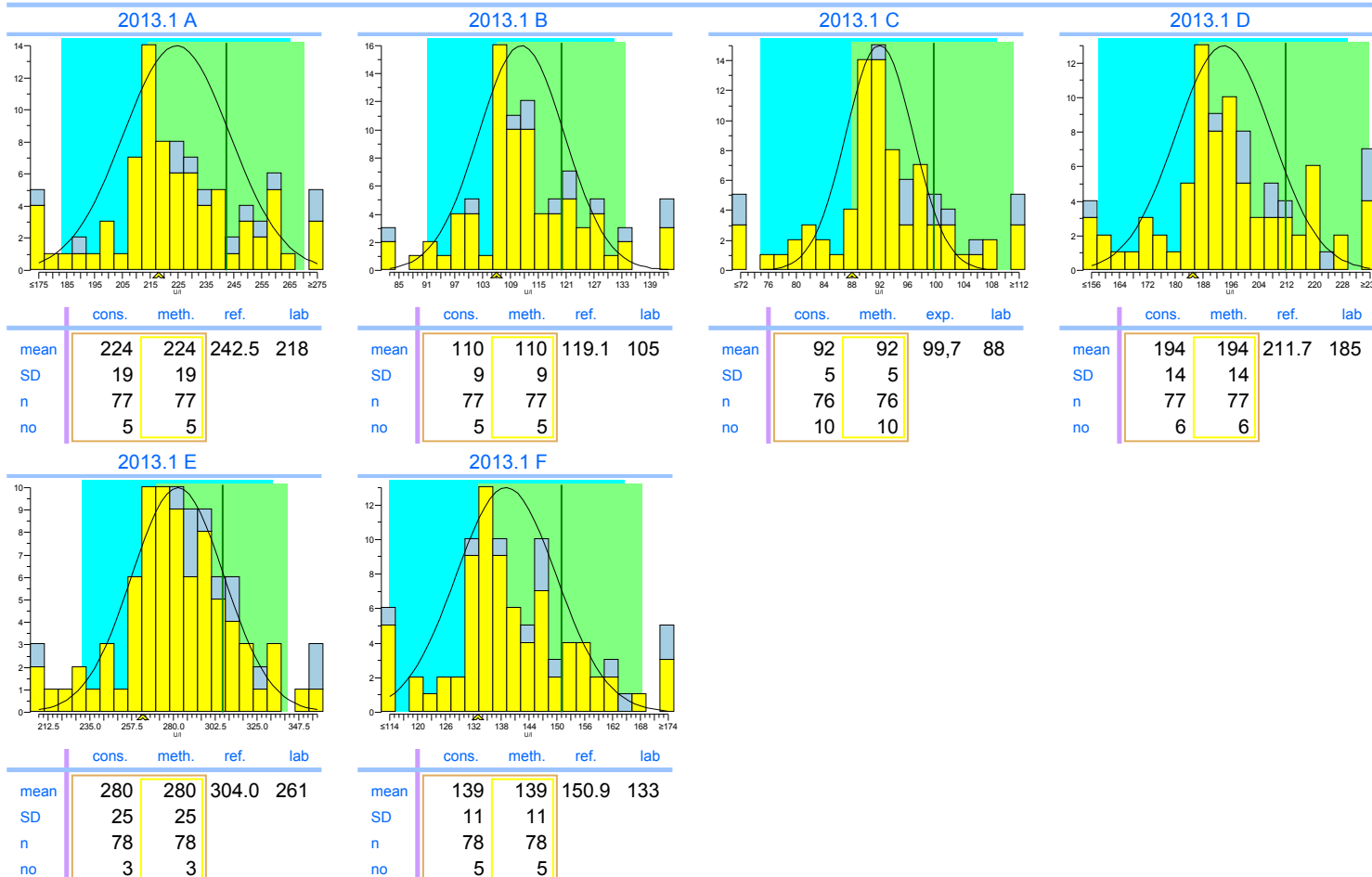
Alk. Phosphatase

units: U/I



	2013.1	cumulative
Trueness	-12%	-12%
Precision	1.8%	1.8%
Number	6	6
Outliers	0	0
Sigma-TE	0.6	0.6
Sigma-SA	3.4 <span style="background-color: green; color: white;">1</span>	3.4 <span style="background-color: green; color: white;">1</span>
Score pictogram		
Regression line	$0 + 0.876.x$	$0 + 0.876.x$

Consensus group	IFCC traceerbaar
Method	IFCC traceable

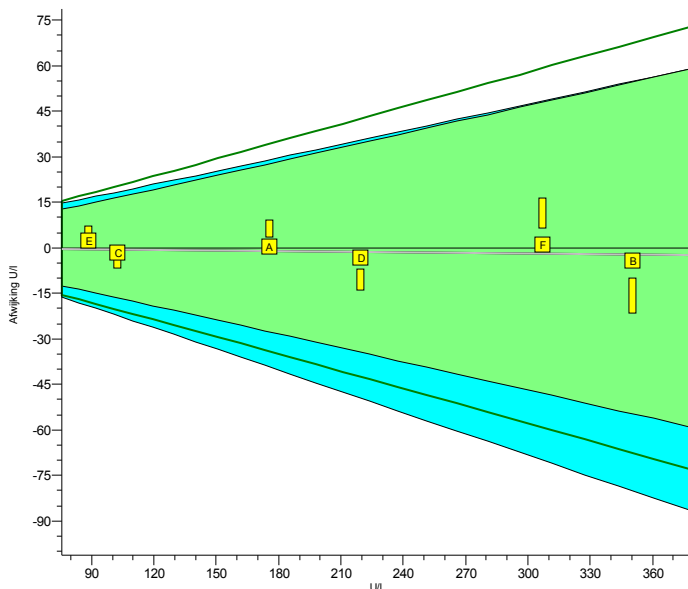




Legend  
 IFCC traceable  
 IFCC non-traceable

# INPUTS 2013.1

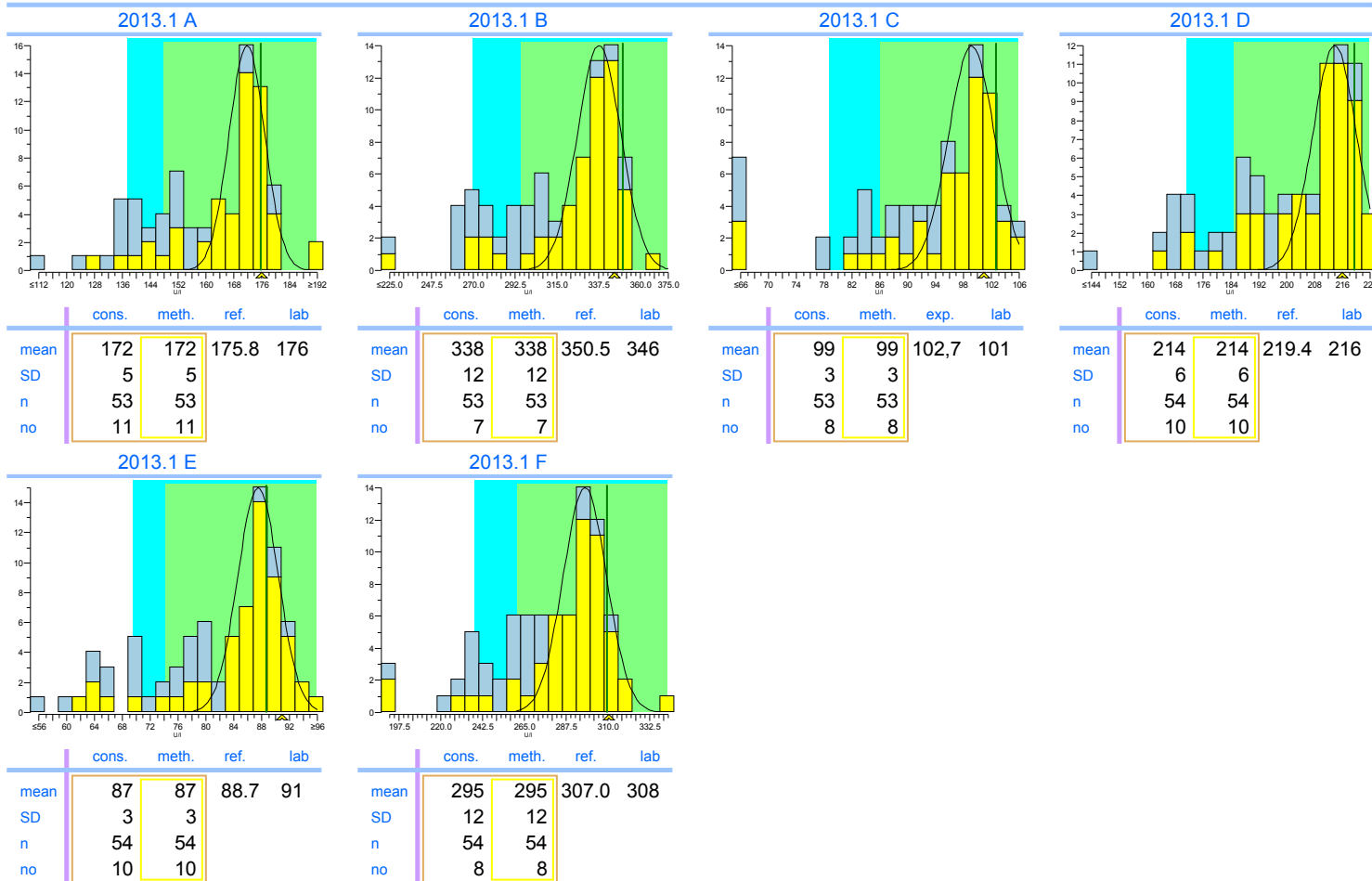
## Amylase

units: U/l



	2013.1	cumulative
Trueness	-0.49%	-0.49%
Precision	1.4%	1.4%
Number	6	6
Outliers	0	0
Sigma-TE	6.0	6.0
Sigma-SA	6.0 <span style="border: 1px solid black; padding: 2px;">2</span>	6.0 <span style="border: 1px solid black; padding: 2px;">2</span>
Score pictogram		
Regression line	$0 + 0.994 \cdot x$	$0 + 0.994 \cdot x$

Consensus group IFCC traceerbaar  
Method IFCC traceable



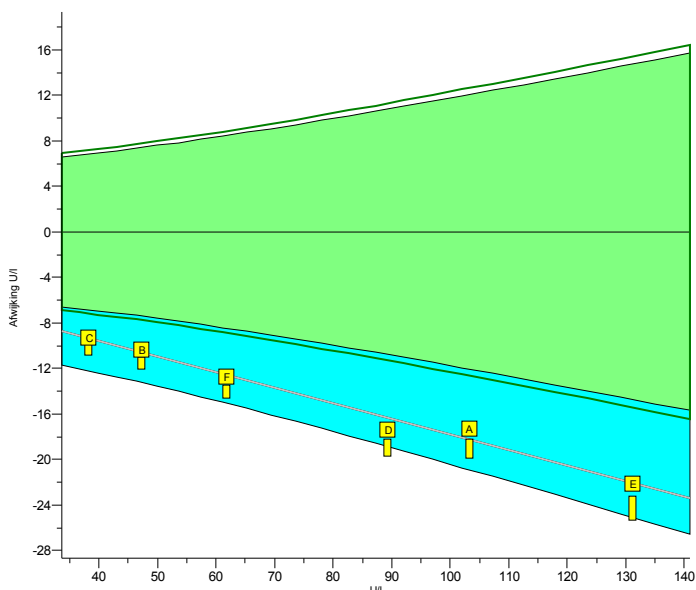
Legend

IFCC traceable  IFCC non-traceable

# INPUTS 2013.1

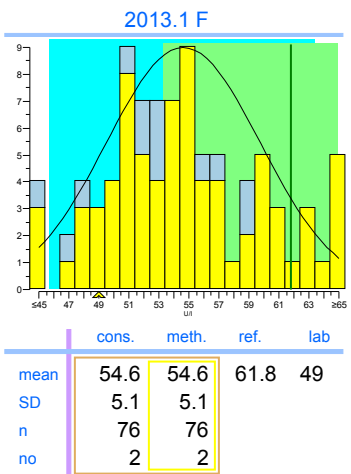
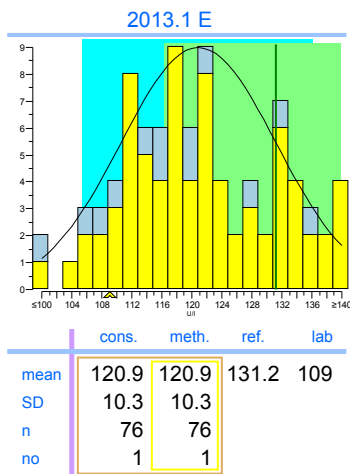
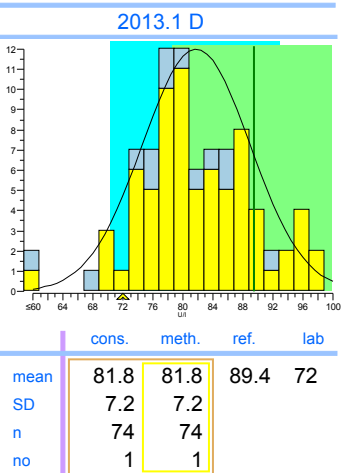
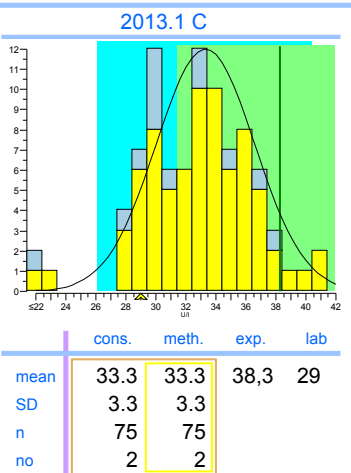
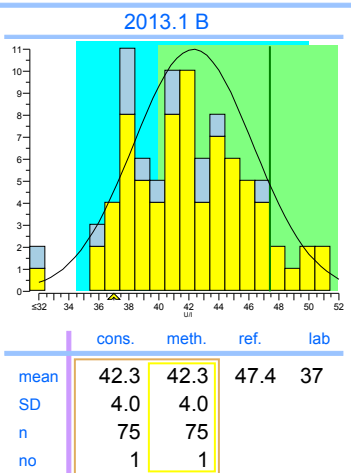
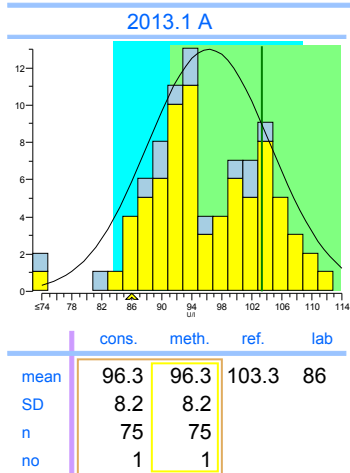
ASAT

units: U/I



	2013.1	cumulative
Trueness	-19%	-19%
Precision	0.83%	0.83%
Number	6	6
Outliers	0	0
Sigma-TE	-3.0	-3.0
Sigma-SA	-3.0 <span style="border: 1px solid red; padding: 2px;">0</span>	-3.0 <span style="border: 1px solid red; padding: 2px;">0</span>
Score pictogram		
Regression line	$-4.2 + 0.863.x$	$-4.2 + 0.863.x$

Consensus group IFCC tracerbaar  
Method IFCC traceable



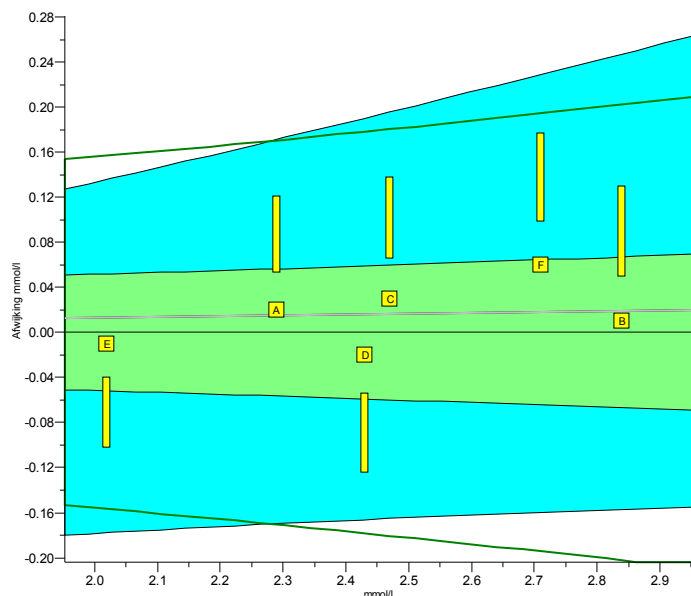
Legend

IFCC traceable  IFCC non-traceable

# INPUTS 2013.1

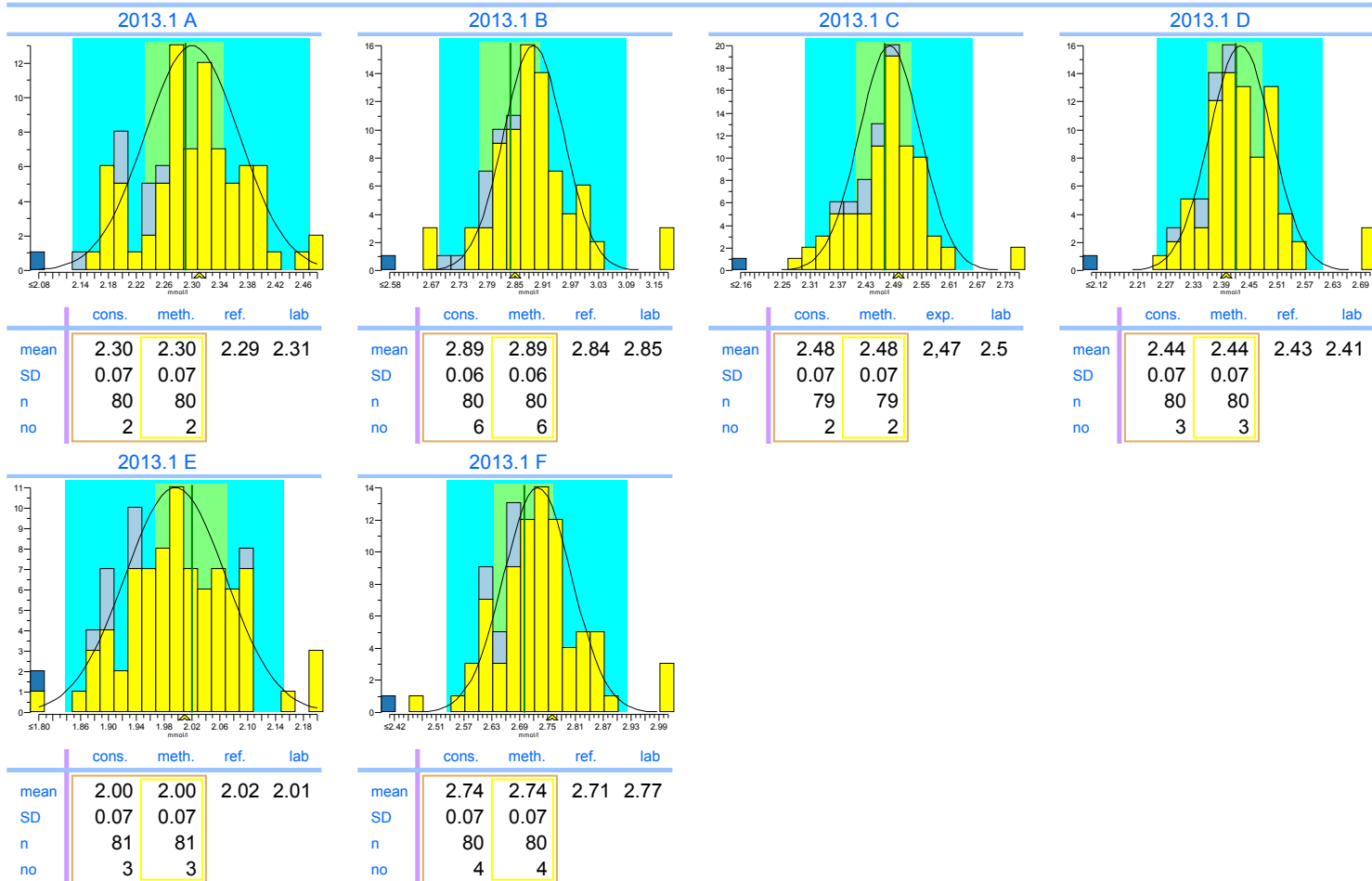
## Calcium

units: mmol/l



	2013.1	cumulative
Trueness	+0.61%	+0.61%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	2.0	2.0
Sigma-SA	6.0 <span style="border: 1px solid black; padding: 0 2px;">2</span>	6.0 <span style="border: 1px solid black; padding: 0 2px;">2</span>
Score pictogram		
Regression line	<u>0.00 + 1.007.x</u>	<u>0.00 + 1.007.x</u>

Consensus group	Colorimetrisch
Method	Colorimetric, automatic, discrete



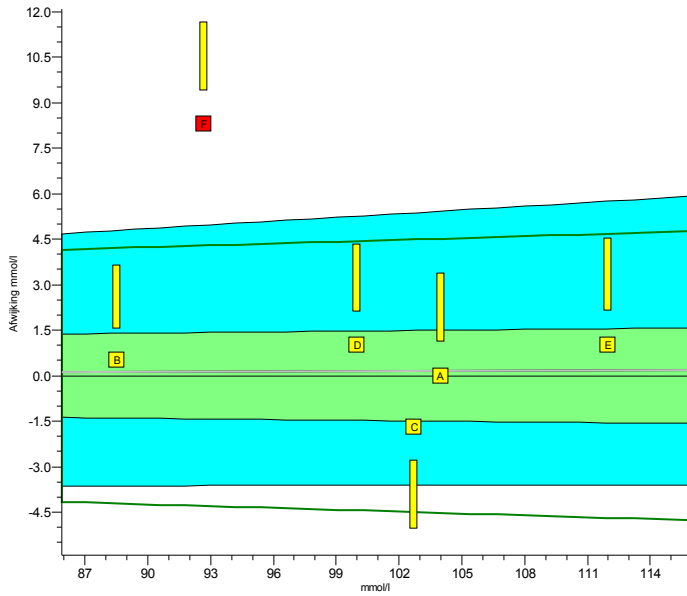
Legend



- Colorimetric, automatic, discrete
- ISE indirect (with predilution)
- Other methods

# INPUTS 2013.1

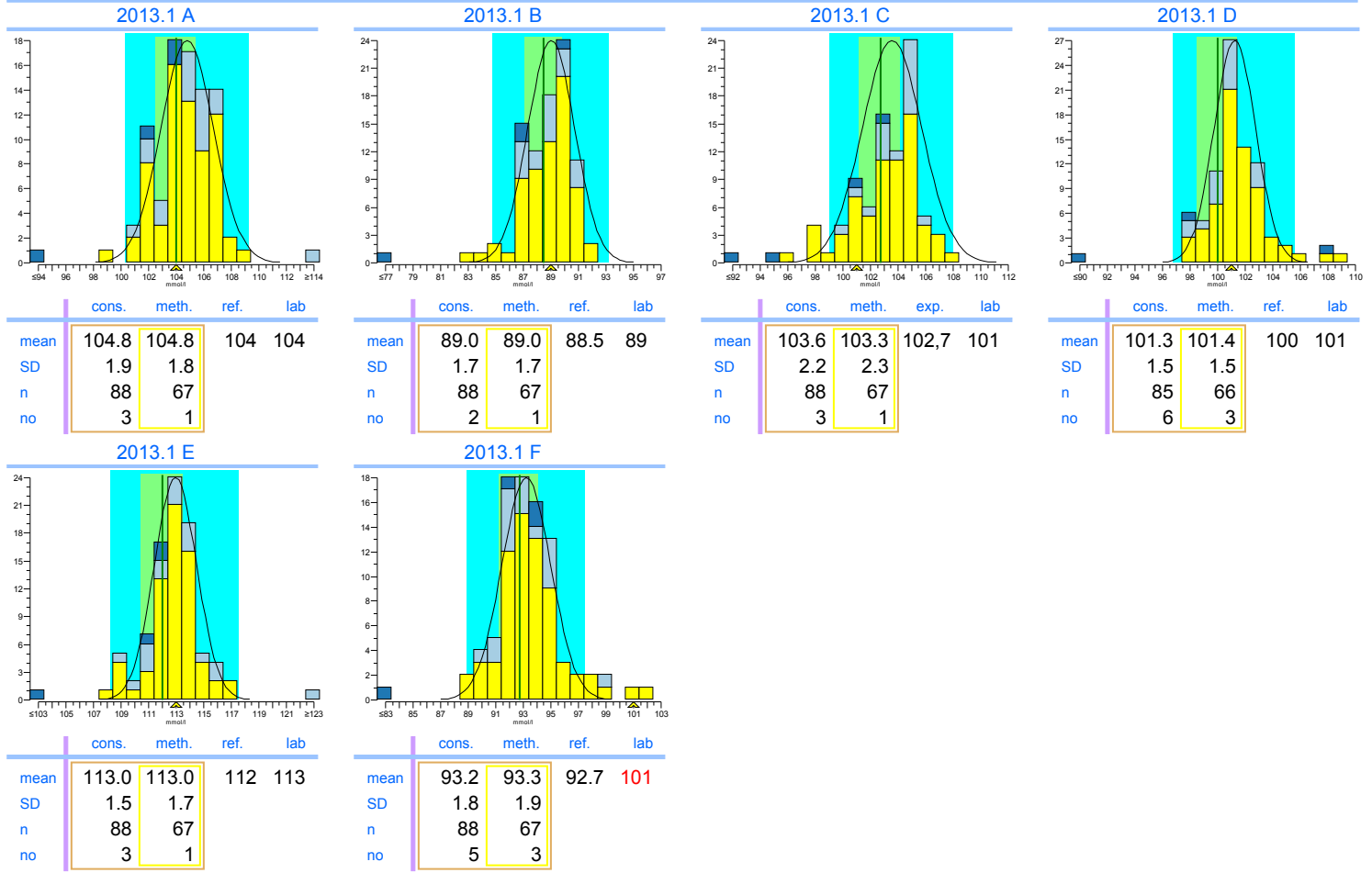
Chloride

units: mmol/l

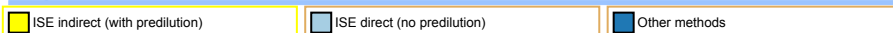


	2013.1	cumulative
Trueness	+0.16%	+0.16%
Precision	1.1%	1.1%
Number	6	6
Outliers	1	1
Sigma-TE	0.8	0.8
Sigma-SA	3.5	3.5
Score pictogram		
Regression line	$0.0 + 1.002 \cdot x$	$0.0 + 1.002 \cdot x$

Consensus group ISE/Colorimetrie  
Method ISE indirect (with predilution)



Legend

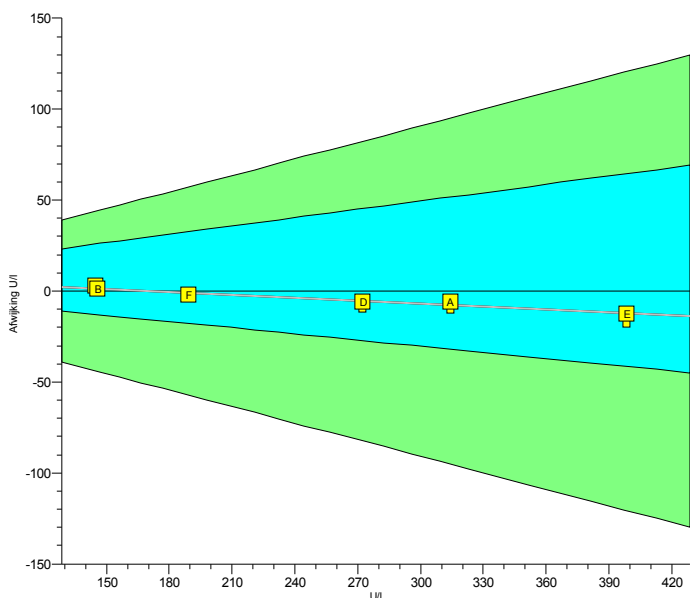






# INPUTS 2013.1

CK

units: U/l



	2013.1	cumulative
Trueness	-1.6%	-1.6%
Precision	0.54%	0.54%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 <span style="border: 1px solid black; padding: 0 2px;">2</span>	6.0 <span style="border: 1px solid black; padding: 0 2px;">2</span>
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$9 + 0.946.x$	$9 + 0.946.x$

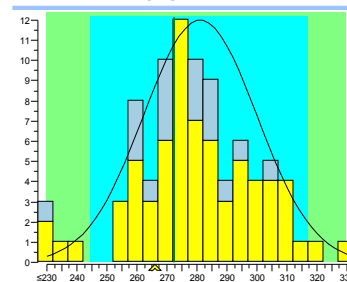
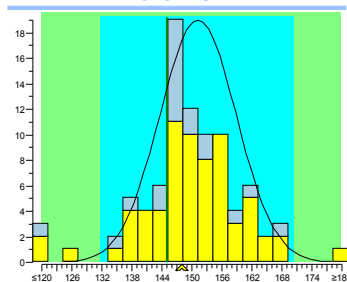
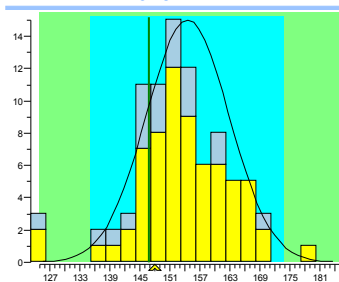
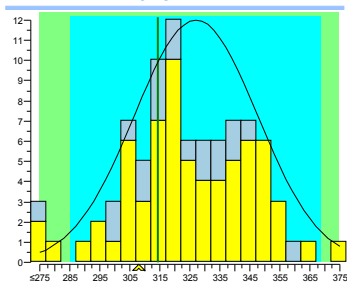
Consensus group IFCC traceerbaar  
Method IFCC traceable

2013.1 A

2013.1 B

2013.1 C

2013.1 D



	cons.	meth.	ref.	lab
mean	327	327	314.3	308
SD	21	21		
n	68	68		
no	2	2		

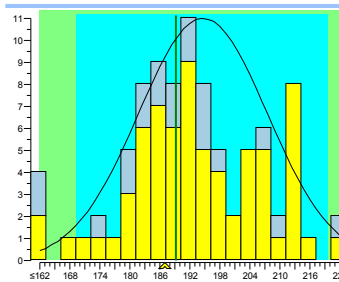
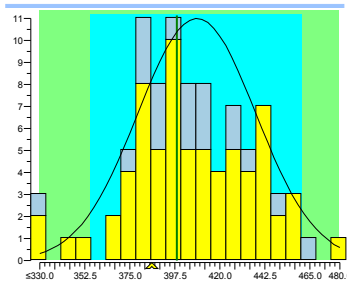
	cons.	meth.	ref.	lab
mean	154	154	145.8	147
SD	8	8		
n	67	67		
no	3	3		

	cons.	meth.	exp.	lab
mean	151	151	145	148
SD	8	8		
n	68	68		
no	4	4		

	cons.	meth.	ref.	lab
mean	281	281	272.3	266
SD	19	19		
n	69	69		
no	2	2		

2013.1 E

2013.1 F



	cons.	meth.	ref.	lab
mean	409	409	398.4	386
SD	30	30		
n	69	69		
no	2	2		

	cons.	meth.	ref.	lab
mean	195	195	189.2	187
SD	13	13		
n	69	69		
no	2	2		

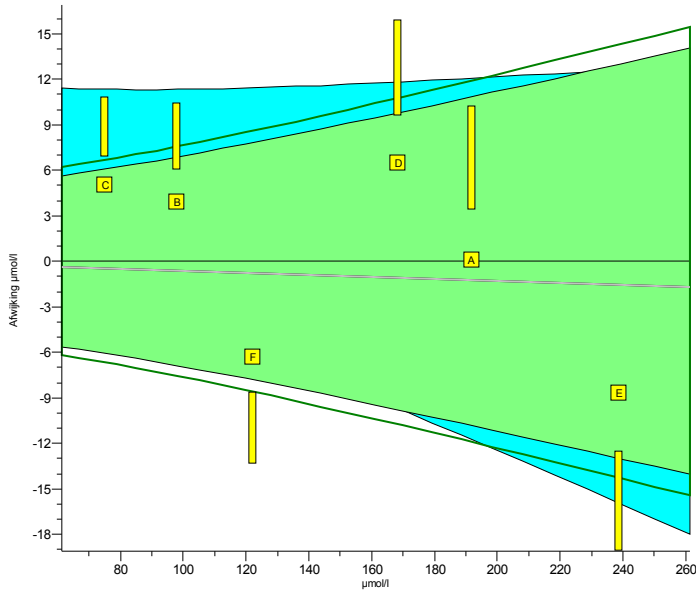
Legend

IFCC traceable     IFCC non-traceable

# INPUTS 2013.1

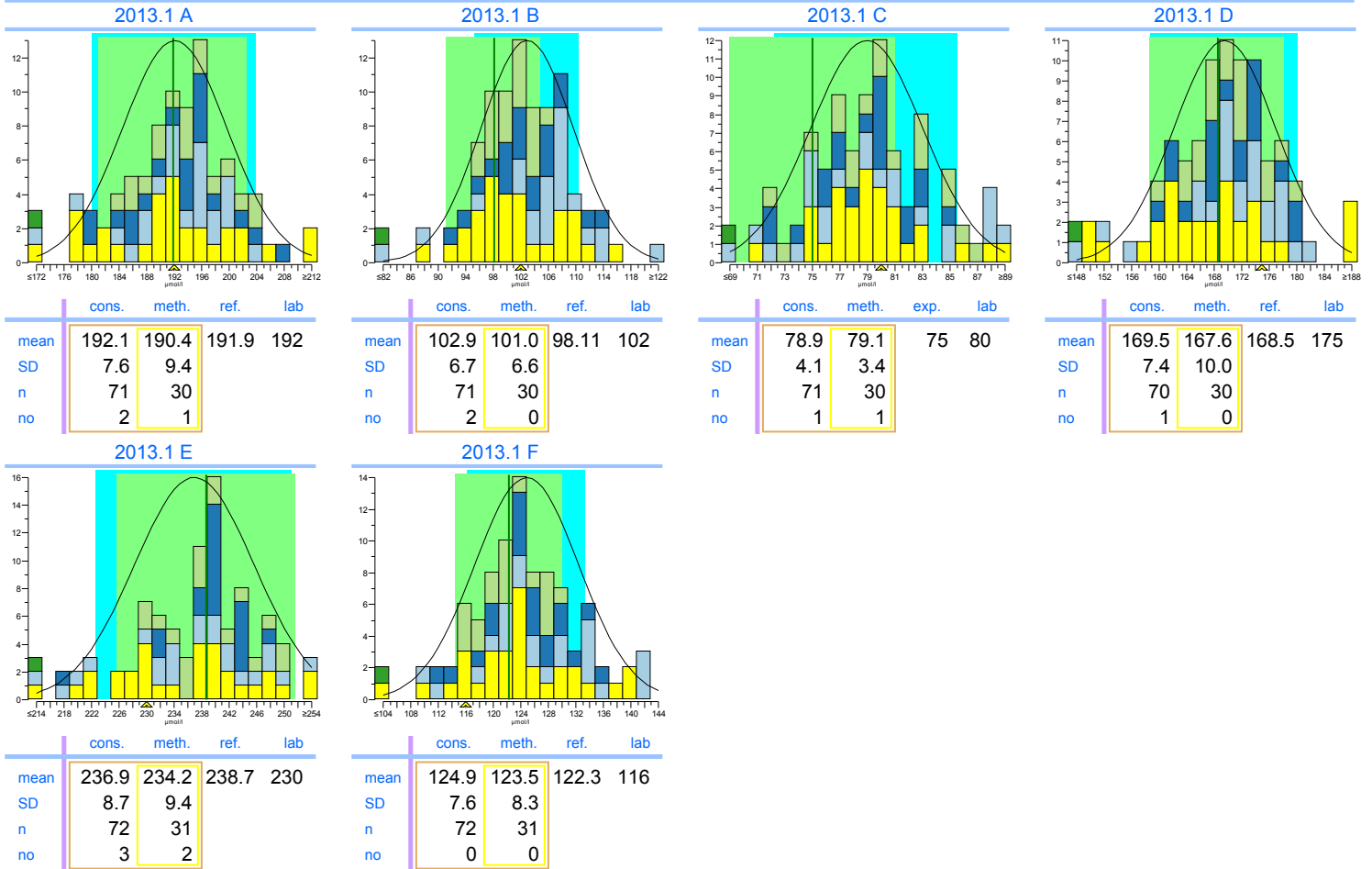
## Creatinine

units:  $\mu\text{mol/l}$



	2013.1	cumulative
Trueness	+0.05%	+0.05%
Precision	3.5%	3.5%
Number	6	6
Outliers	0	0
Sigma-TE	2.4	2.4
Sigma-SA	2.8	2.8
Score pictogram		
Regression line	$0.0 + 0.994.x$	$0.0 + 0.994.x$

Consensus group: Jaffe  
Method: Alk. Picrate, kinetic with compensation



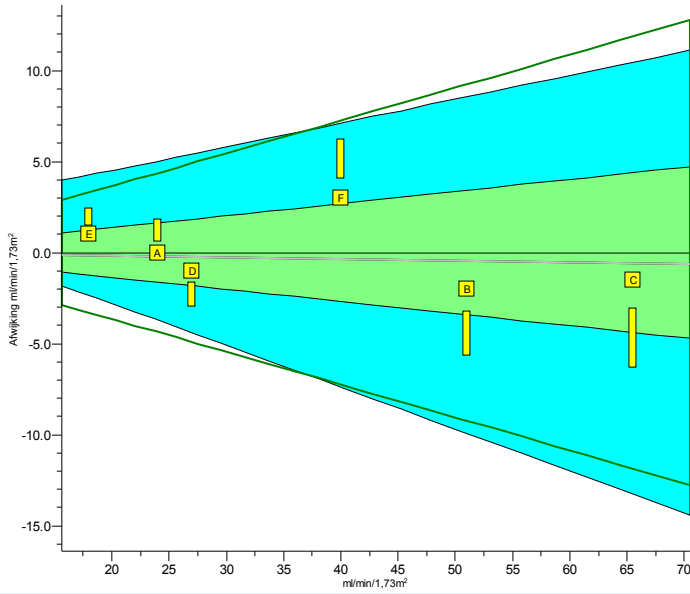
Legend

- Alk. Picrate, kinetic with compensation
- Alk. Picrate, kinetic
- Alk. Picrate, endpoint
- Enzymatic, automatic
- Other methods

# INPUTS 2013.1

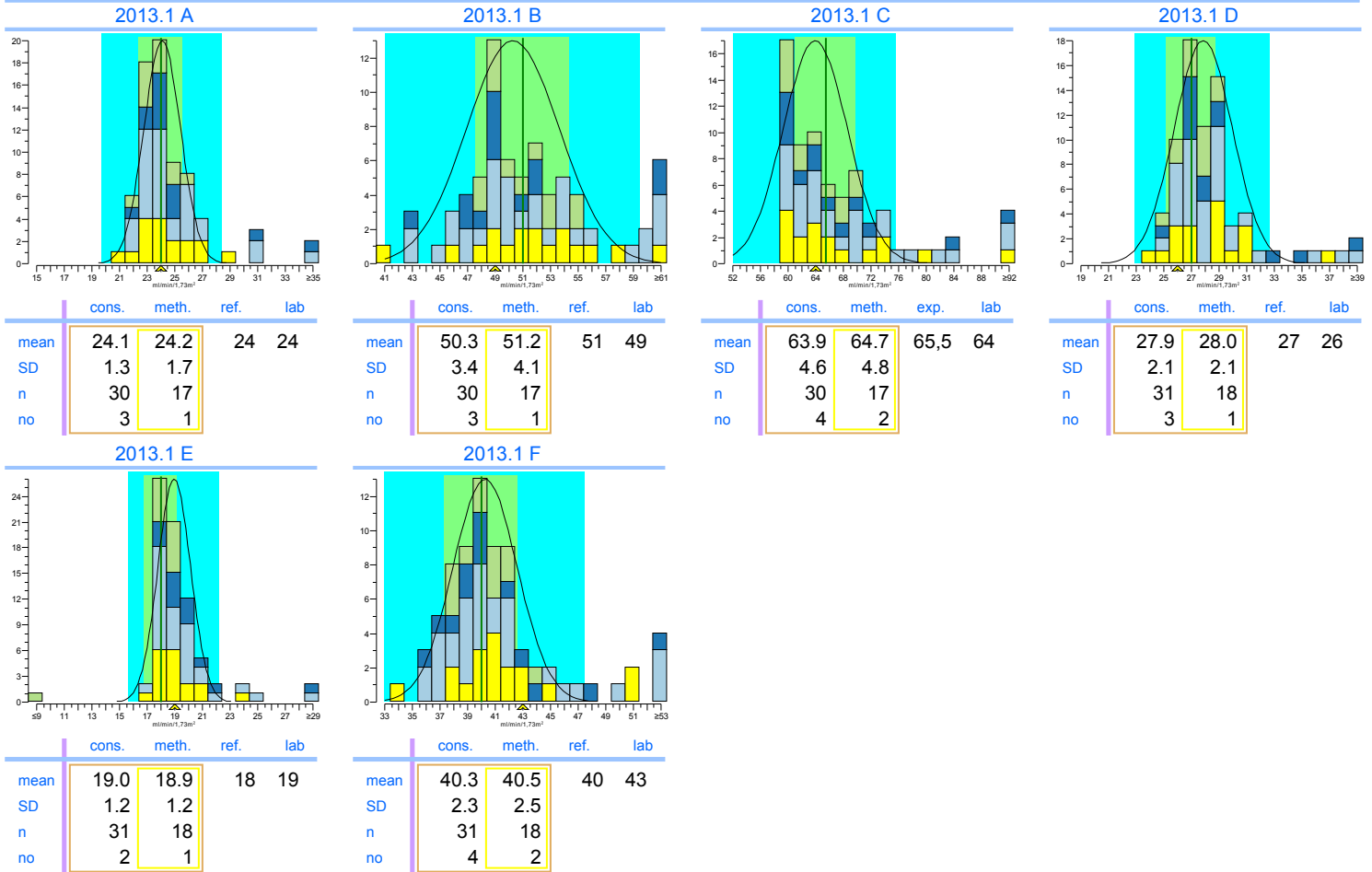
eGFR (F, 55, white)

units: ml/min/1,73m<sup>2</sup>



	2013.1	cumulative
Trueness	-0.22%	-0.22%
Precision	4.2%	4.2%
Number	6	6
Outliers	0	0
Sigma-TE	2.2	2.2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0.0 + 0.991 \cdot x$	$0.0 + 0.991 \cdot x$

Consensus group: Jaffe  
Method: Alk. Picrate, kinetic with compensation



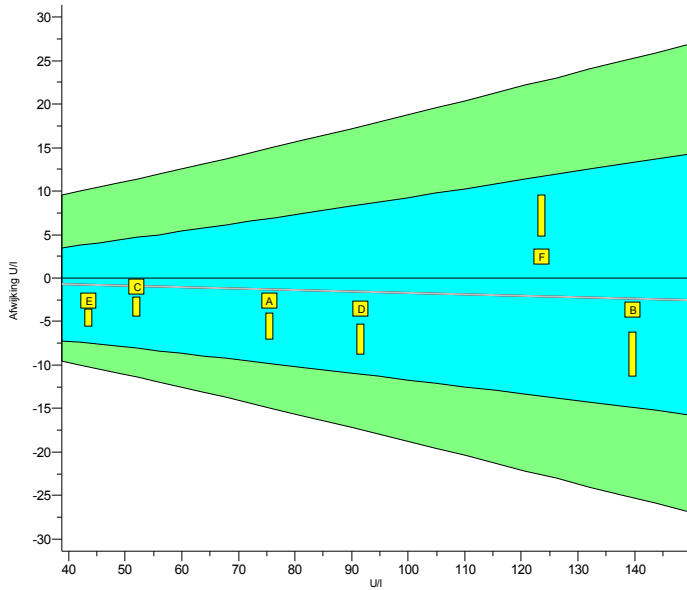
Legend



- Alk. Picrate, kinetic with compensation
- Other methods
- Alk. Picrate, kinetic
- Enzymatic, automatic

# INPUTS 2013.1

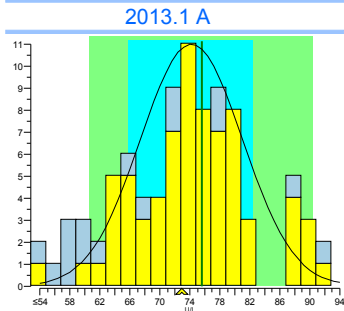
Gamma-GT

units: U/I

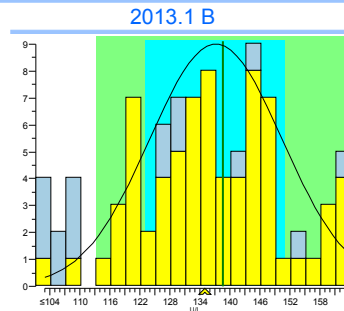


	2013.1	cumulative
Trueness	-2.1%	-2.1%
Precision	2.2%	2.2%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 <span style="background-color: green; color: white;">2</span>	6.0 <span style="background-color: green; color: white;">2</span>
Sigma-SA	5.5	5.5
Score pictogram		
Regression line	$0.0 + 0.983.x$	$0.0 + 0.983.x$

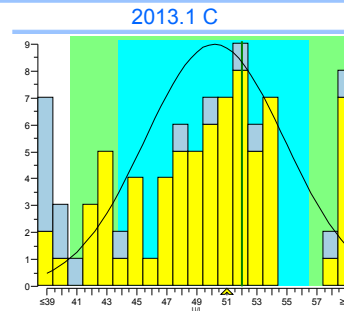
Consensus group IFCC traceerbaar  
Method IFCC traceable



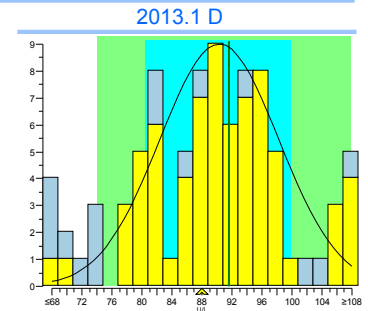
	cons.	meth.	ref.	lab
mean	74.2	74.2	75.6	73
SD	6.8	6.8		
n	72	72		
no	1	1		



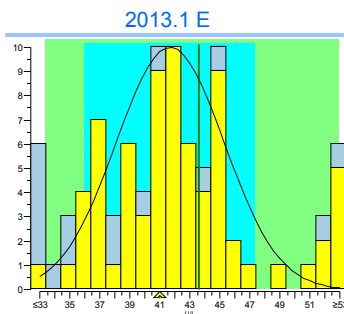
	cons.	meth.	ref.	lab
mean	138.2	138.2	139.7	136
SD	13.3	13.3		
n	72	72		
no	1	1		



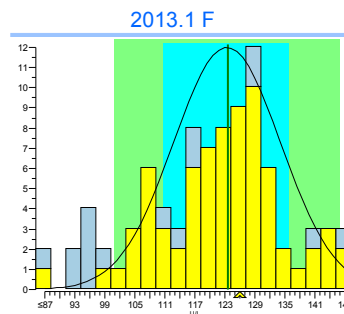
	cons.	meth.	exp.	lab
mean	50.2	50.2	52	51
SD	4.6	4.6		
n	72	72		
no	2	2		



	cons.	meth.	ref.	lab
mean	90.3	90.3	91.6	88
SD	7.9	7.9		
n	71	71		
no	1	1		



	cons.	meth.	ref.	lab
mean	41.7	41.7	43.6	41
SD	3.6	3.6		
n	73	73		
no	6	6		



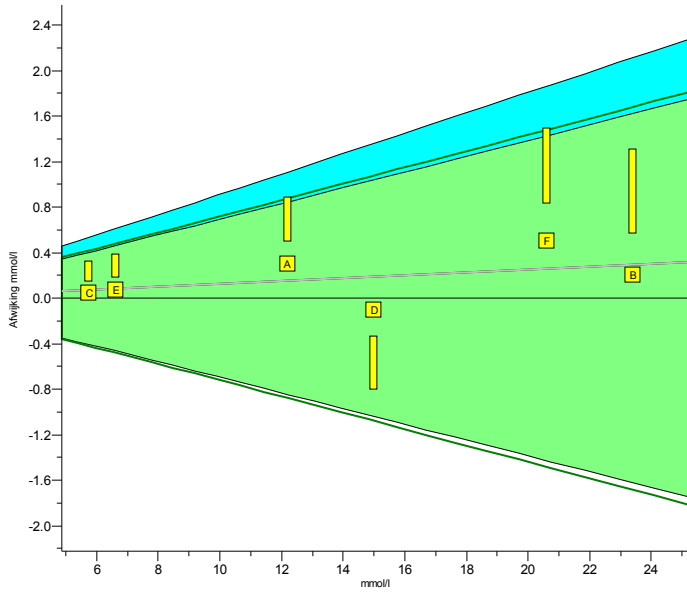
	cons.	meth.	ref.	lab
mean	123.4	123.4	123.6	126
SD	10.7	10.7		
n	73	73		
no	1	1		

Legend  
 IFCC traceable  
 IFCC non-traceable

# INPUTS 2013.1

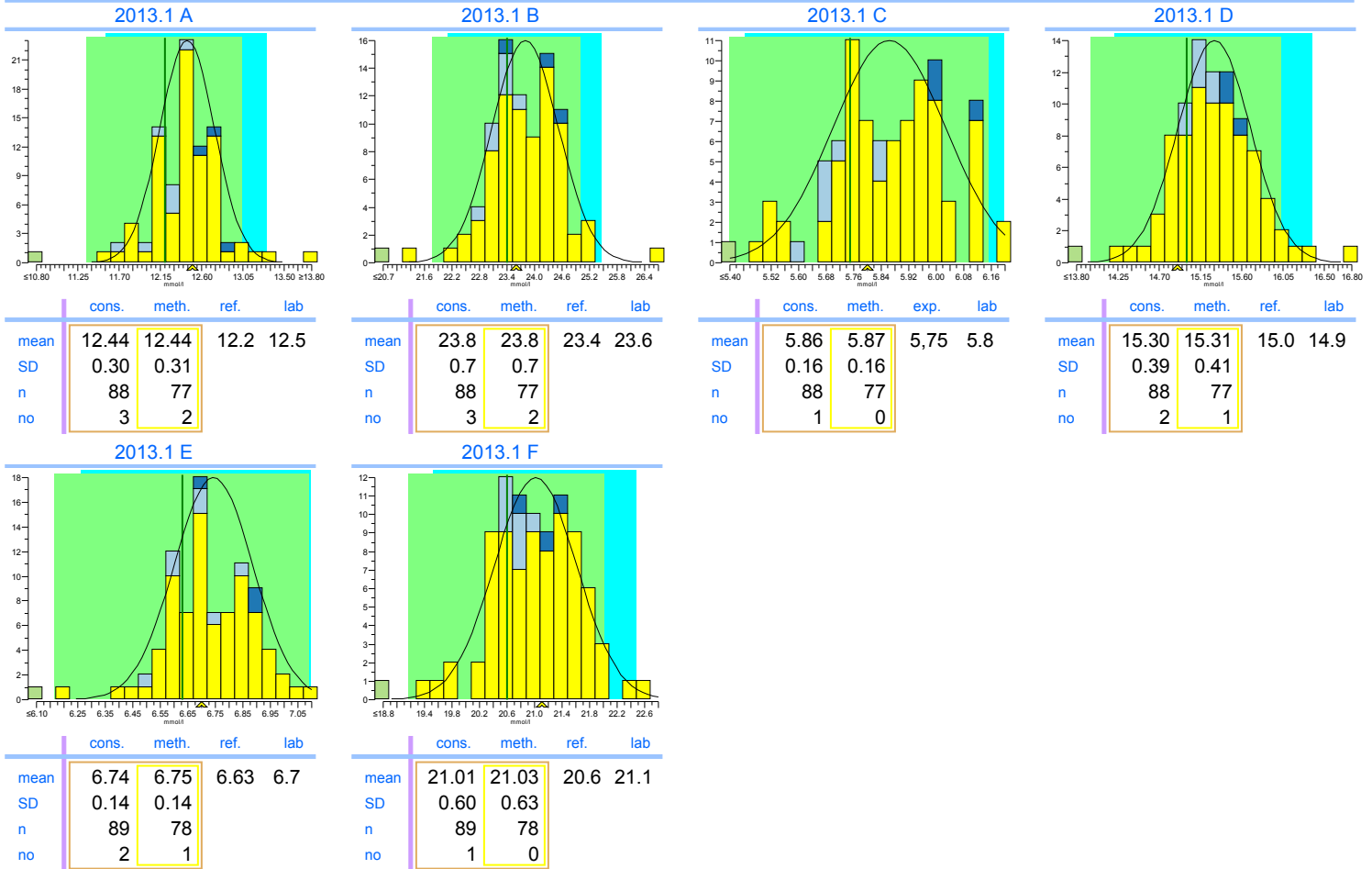
Glucose

units: mmol/l



	2013.1	cumulative
Trueness	+1.2%	+1.2%
Precision	1.3%	1.3%
Number	6	6
Outliers	0	0
Sigma-TE	5.1	5.1
Sigma-SA	5.3 <span style="background-color: green; color: white; padding: 2px;">2</span>	5.3 <span style="background-color: green; color: white; padding: 2px;">2</span>
Score pictogram		
Regression line	<u>0.00 + 1.013.x</u>	<u>0.00 + 1.013.x</u>

Consensus group Natte chemie  
Method Hexokinase, automatic



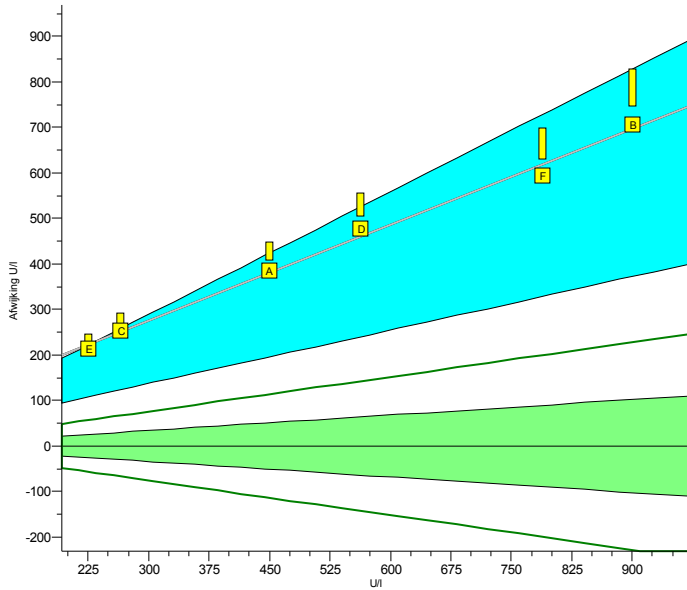
Legend

- Hexokinase, automatic
- Glucose-oxydase, amperometric, H2O2
- Glucose-oxydase/POD, automatic
- Other methods

# INPUTs 2013.1

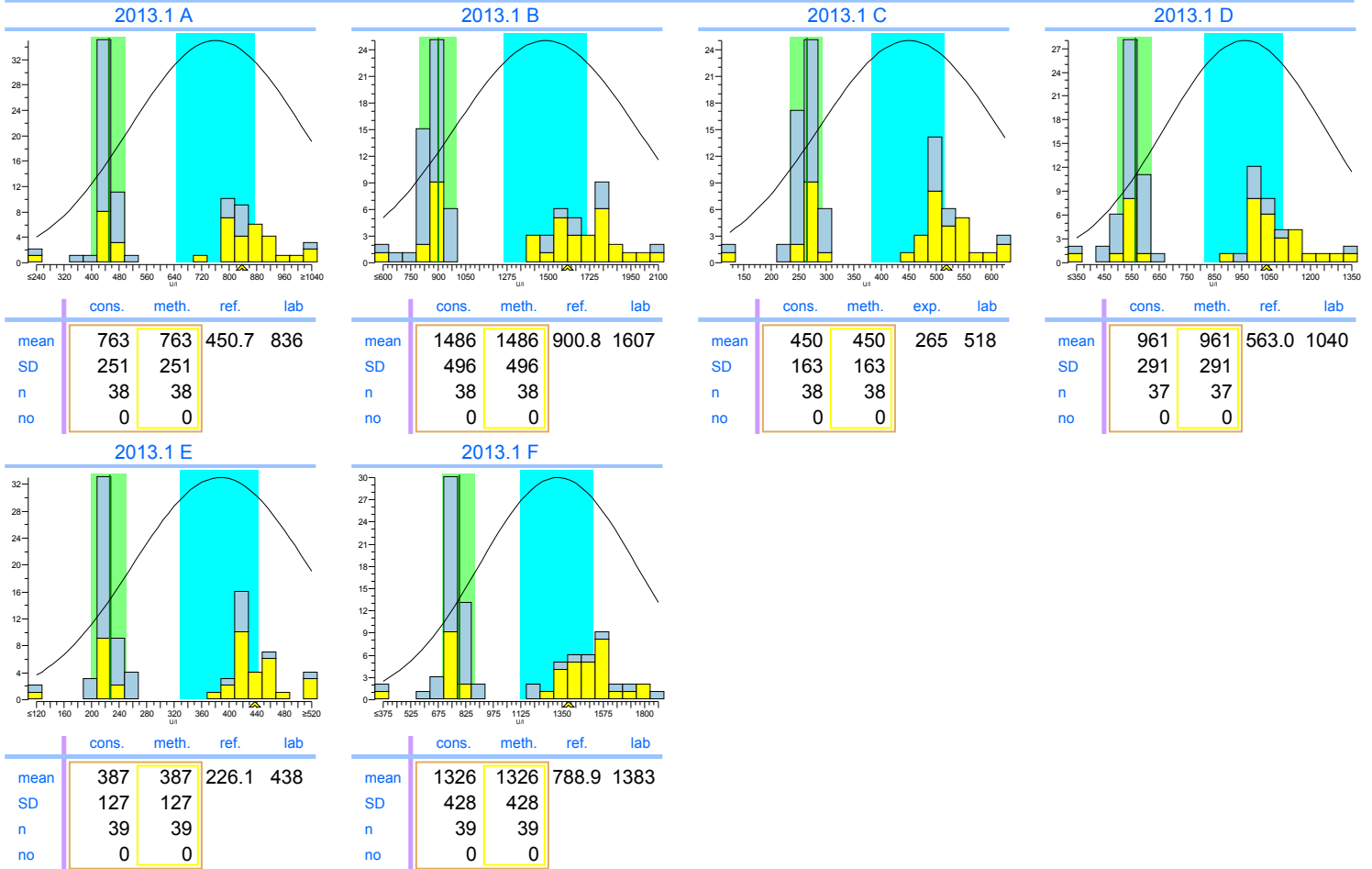
LD

units: U/I



	2013.1	cumulative
Trueness	+82%	+82%
Precision	2.2%	2.2%
Number	6	6
Outliers	0	0
Sigma-TE	-3.0	-3.0
Sigma-SA	-3.0 <span style="border: 1px solid red; padding: 2px;">0</span>	-3.0 <span style="border: 1px solid red; padding: 2px;">0</span>
Score pictogram		
Regression line	$64 + 1.703 \cdot x$	$64 + 1.703 \cdot x$

Consensus group niet IFCC traceerbaar  
Method IFCC non-traceable



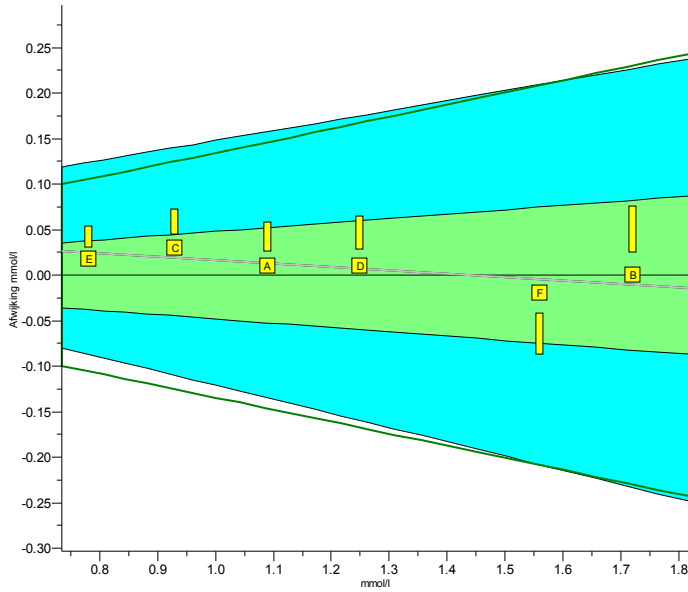
Legend

  IFCC non-traceable      IFCC traceable

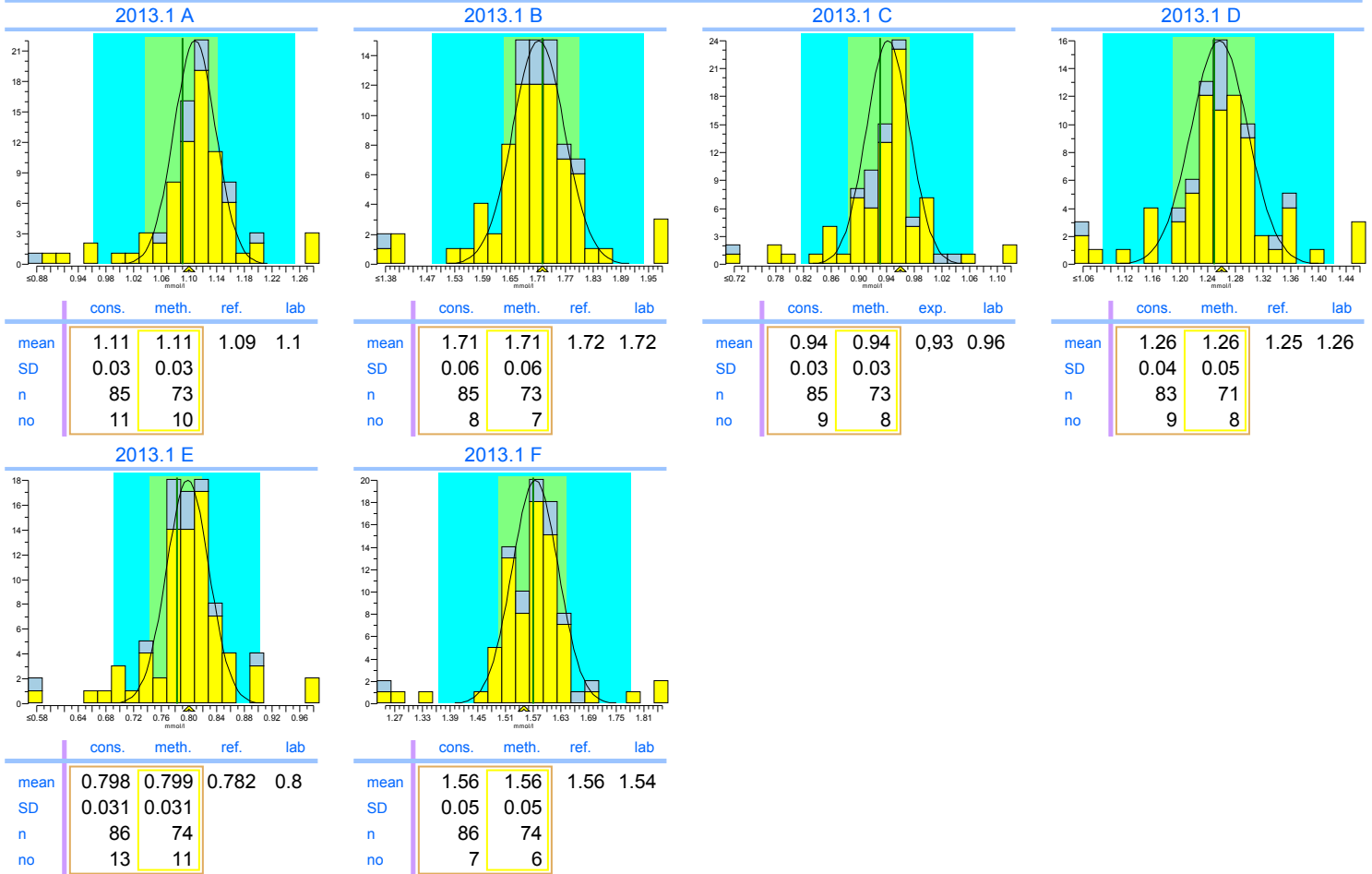
# INPUTS 2013.1

## Magnesium

units: mmol/l



	2013.1	cumulative
Trueness	+0.65%	+0.65%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	3.6	3.6
Sigma-SA	6.0 <span style="background-color: green; color: white; padding: 2px;">2</span>	6.0 <span style="background-color: green; color: white; padding: 2px;">2</span>
Score pictogram		
Regression line	<u>0.05 + 0.963.x</u>	<u>0.05 + 0.963.x</u>
Consensus group	Overall	
Method	Colorimetric	



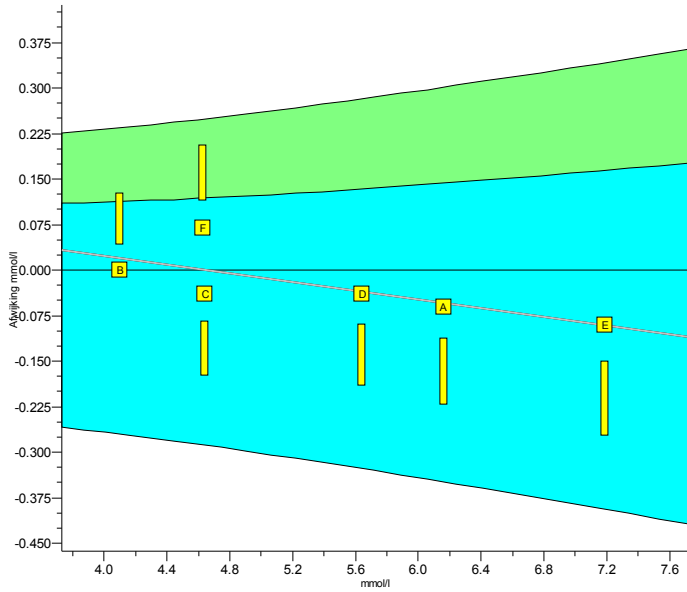
Legend





# INPUTS 2013.1

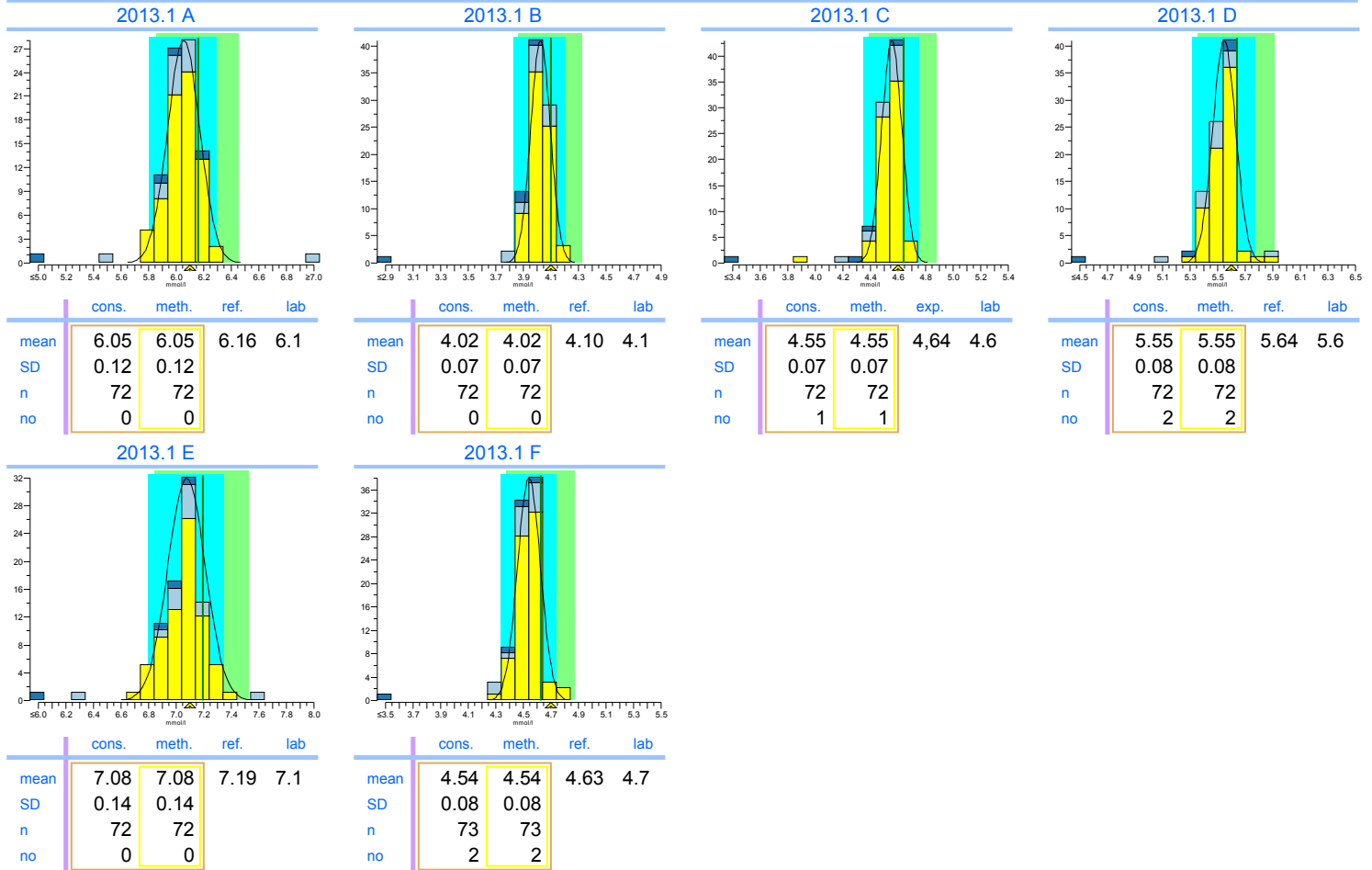
Potassium

units: mmol/l



	2013.1	cumulative
Trueness	-0.49%	-0.49%
Precision	0.75%	0.75%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 <span style="border: 1px solid green; padding: 2px;">2</span>	6.0 <span style="border: 1px solid green; padding: 2px;">2</span>
Sigma-SA	5.2	5.2
Score pictogram		
Regression line	$0.17 + 0.964 \cdot x$	$0.17 + 0.964 \cdot x$

Consensus group ISE verdund/Vlamfotometrie  
Method ISE indirect (with predilution)



Legend

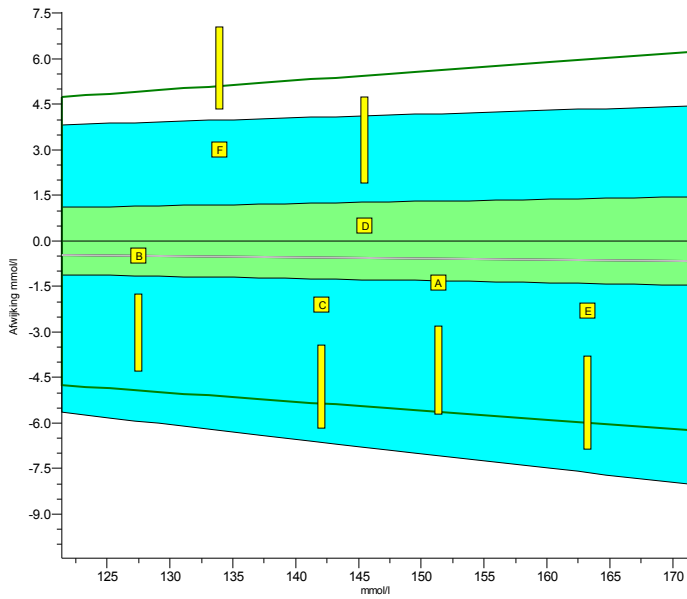
- ISE indirect (with predilution)
- ISE direct (no predilution)
- Other methods



# INPUTS 2013.1

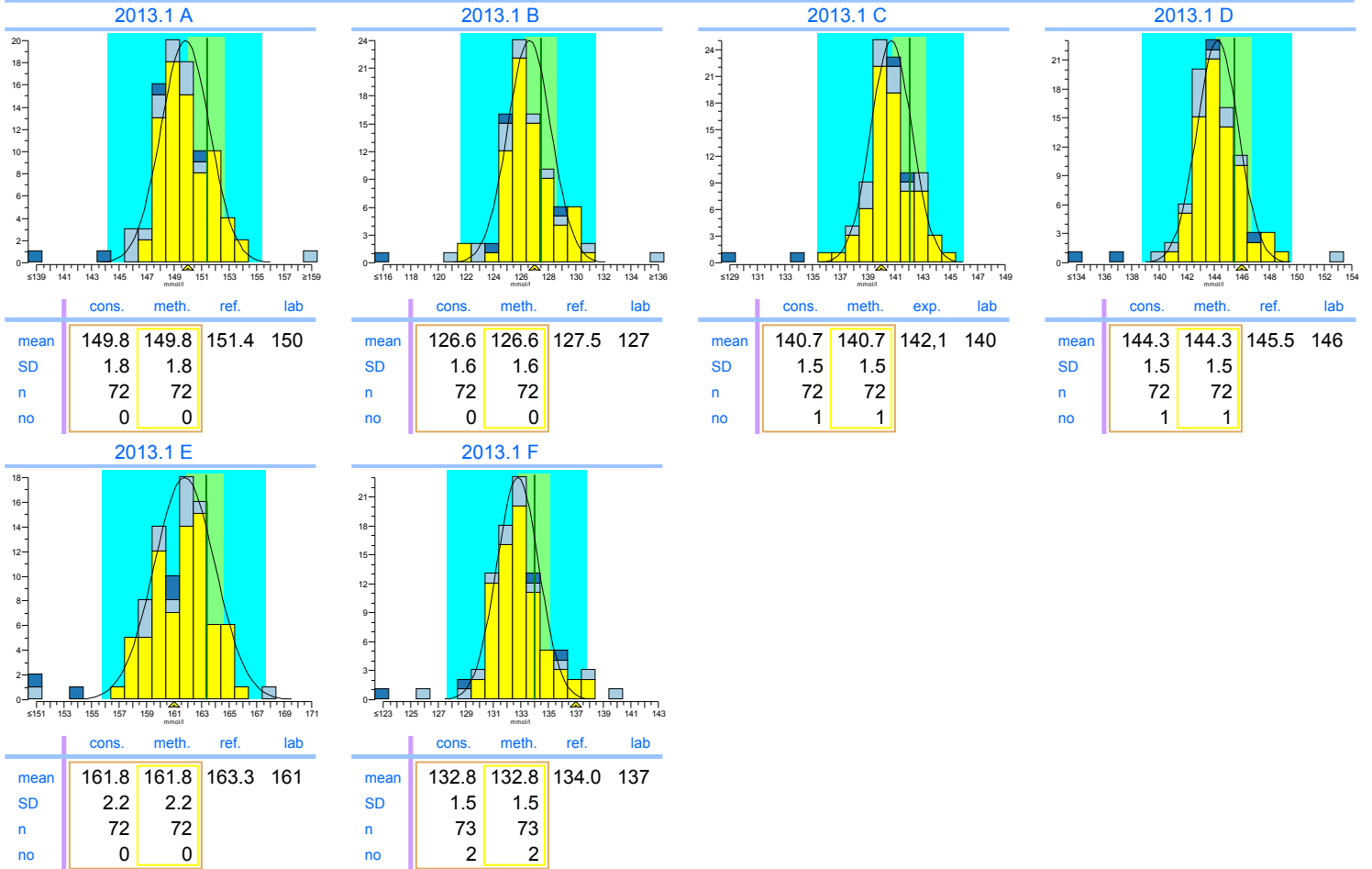
## Sodium

units: mmol/l



	2013.1	cumulative
Trueness	-0.32%	-0.32%
Precision	1.4%	1.4%
Number	6	6
Outliers	0	0
Sigma-TE	0.5	0.5
Sigma-SA	4.1 <span style="background-color: green; color: white;">1</span>	4.1 <span style="background-color: green; color: white;">1</span>
Score pictogram		
Regression line	$0.0 + 0.996.x$	$0.0 + 0.996.x$

Consensus group ISE verdund/Vlamfotometrie  
Method ISE indirect (with predilution)



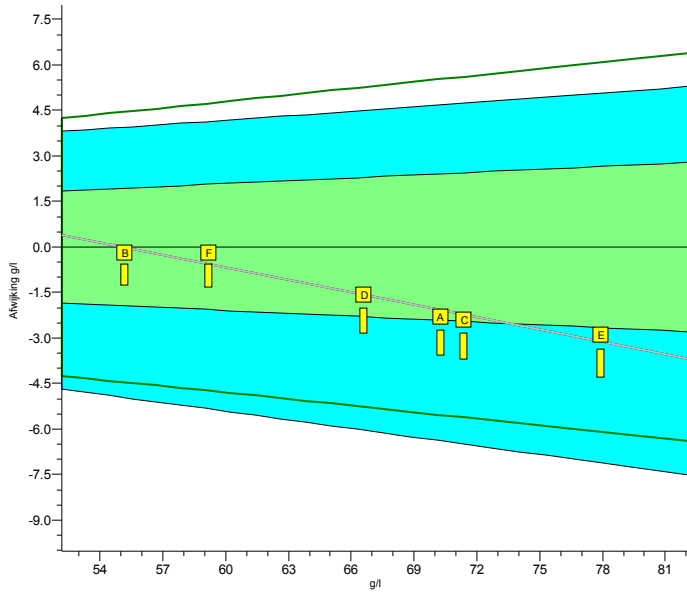
Legend

- ISE indirect (with predilution)
- ISE direct (no predilution)
- Other methods

# INPUTS 2013.1

Total Protein

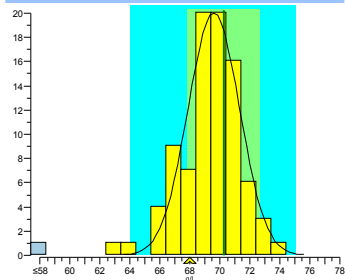
units: g/l



	2013.1	cumulative
Trueness	-2.4%	-2.4%
Precision	0.51%	0.51%
Number	6	6
Outliers	0	0
Sigma-TE	3.1	3.1
Sigma-SA	6.0 <span style="background-color: green; color: white; padding: 2px;">2</span>	6.0 <span style="background-color: green; color: white; padding: 2px;">2</span>
Score pictogram		
Regression line	$7.5 + 0.864.x$	$7.5 + 0.864.x$

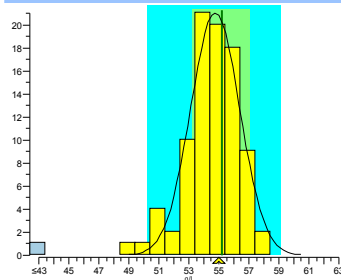
Consensus group: Biureet  
Method: Biurete, automatic

2013.1 A



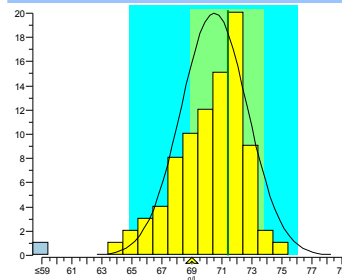
	cons.	meth.	ref.	lab
mean	69.6	69.6	70.3	68
SD	1.7	1.7		
n	88	88		
no	2	2		

2013.1 B



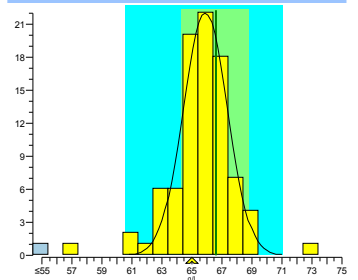
	cons.	meth.	ref.	lab
mean	54.8	54.8	55.2	55
SD	1.6	1.6		
n	88	88		
no	1	1		

2013.1 C



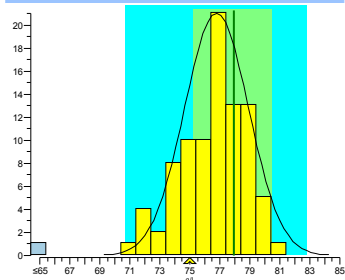
	cons.	meth.	exp.	lab
mean	70.5	70.5	71.4	69
SD	2.2	2.2		
n	87	87		
no	0	0		

2013.1 D



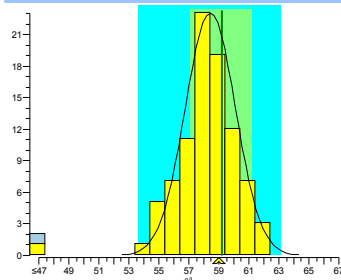
	cons.	meth.	ref.	lab
mean	65.9	65.9	66.6	65
SD	1.5	1.5		
n	88	88		
no	4	4		

2013.1 E



	cons.	meth.	ref.	lab
mean	76.8	76.8	77.9	75
SD	2.1	2.1		
n	88	88		
no	0	0		

2013.1 F



	cons.	meth.	ref.	lab
mean	58.4	58.4	59.2	59
SD	1.7	1.7		
n	89	89		
no	1	1		

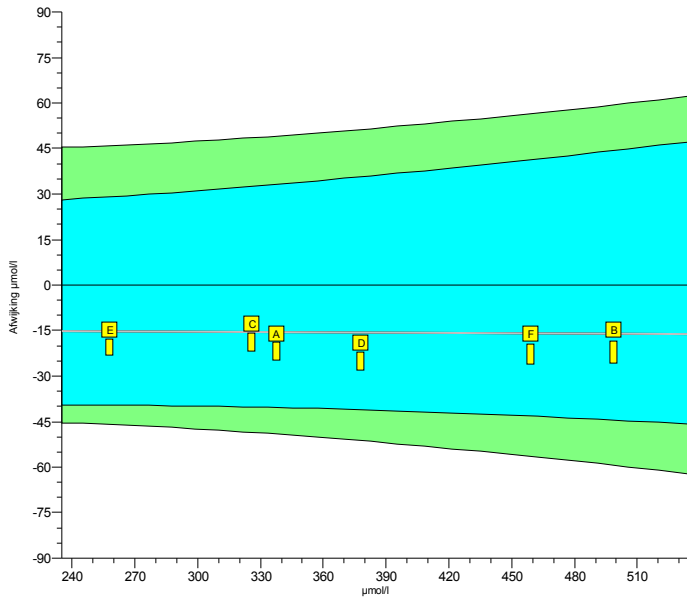
Legend



Biurete, automatic     Other methods

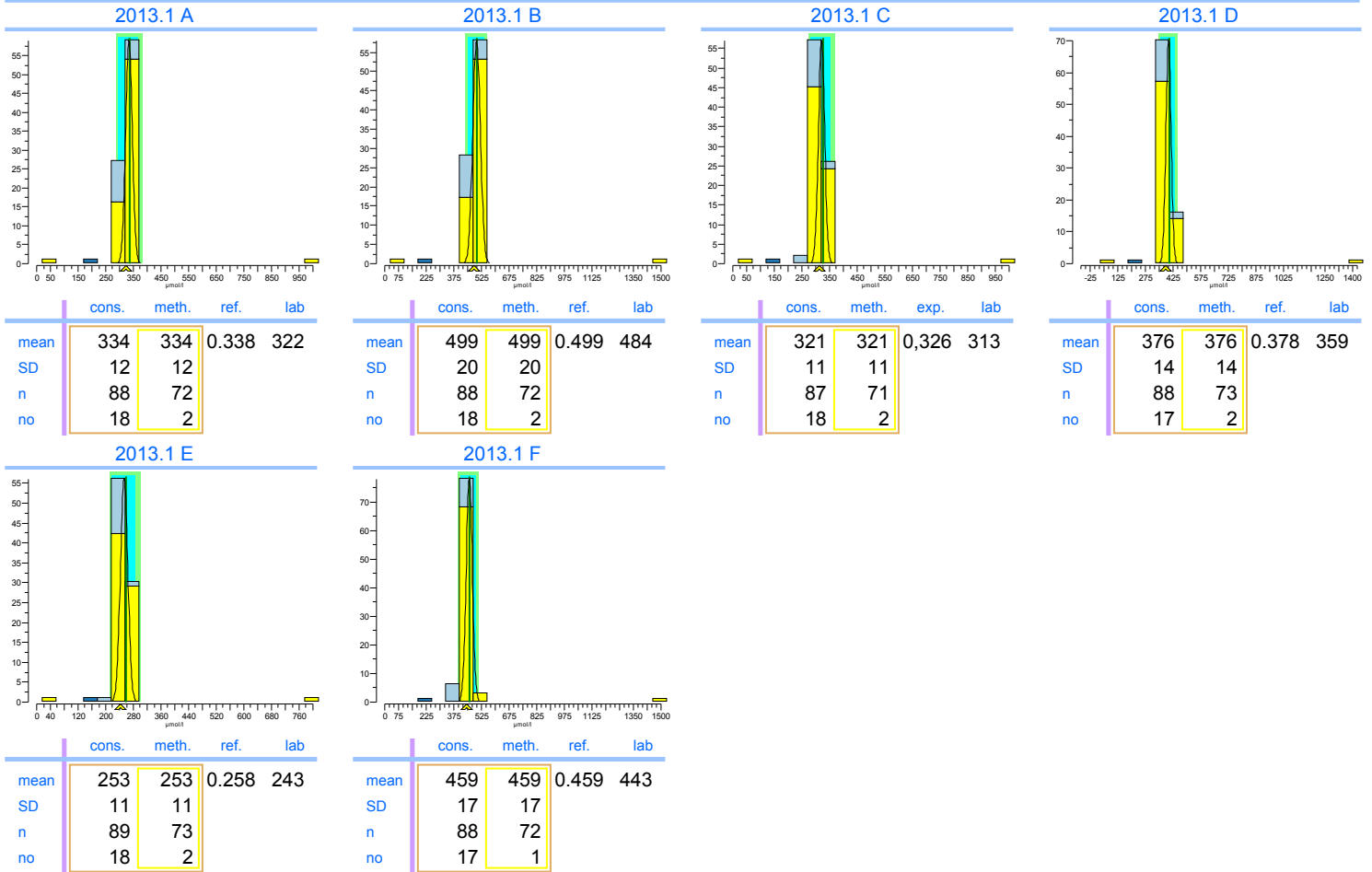
# INPUTS 2013.1

Urate

units:  $\mu\text{mol/l}$



	2013.1	cumulative
Trueness	-4.2%	-4.2%
Precision	0.68%	0.68%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 <span style="border: 1px solid black; padding: 2px;">2</span>	6.0 <span style="border: 1px solid black; padding: 2px;">2</span>
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0 + 0.996 \cdot x$	$0 + 0.996 \cdot x$
Consensus group	Colorimetrisch	
Method	Uricase, colorim., automatic	



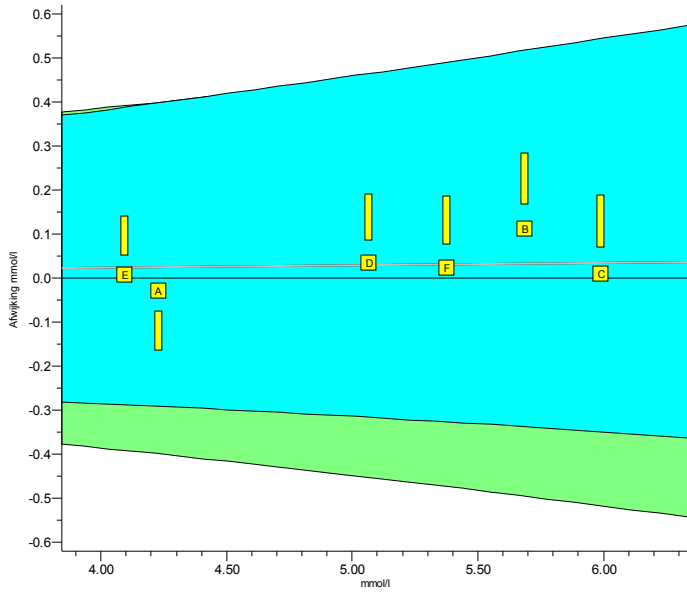
Legend


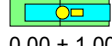
- Uricase, colorim., automatic
- Uricase, differential UV, automatic
- Overige methoden

# INPUTS 2013.1

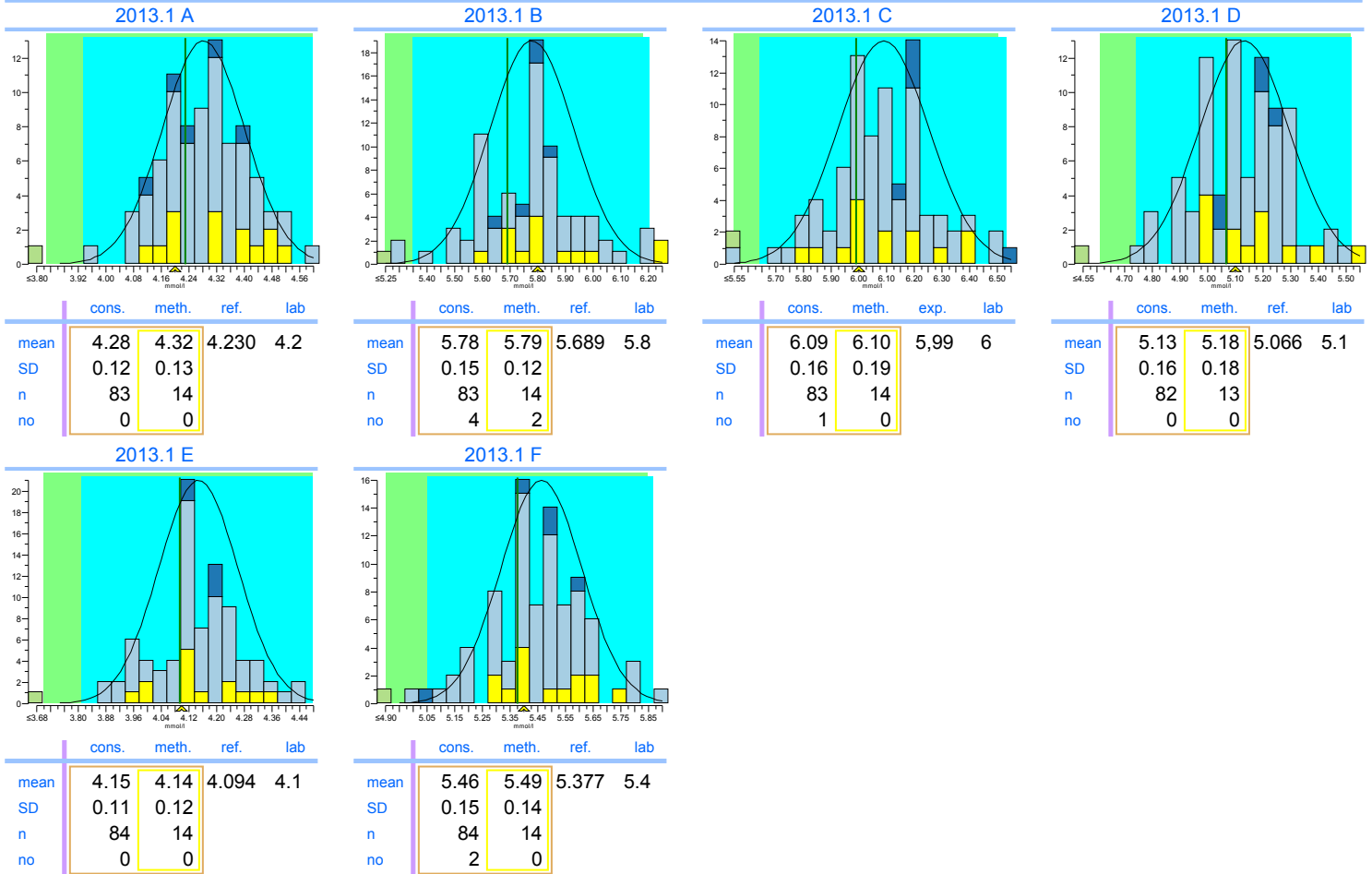
## Cholesterol

units: mmol/l



	2013.1	cumulative
Trueness	+0.51%	+0.51%
Precision	0.82%	0.82%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 <span style="border: 1px solid black; padding: 2px;">2</span>	6.0 <span style="border: 1px solid black; padding: 2px;">2</span>
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	<u>0.00 + 1.006.x</u>	<u>0.00 + 1.006.x</u>

Consensus group	Enzymatisch
Method	Enzymatic, automatic, kinetic



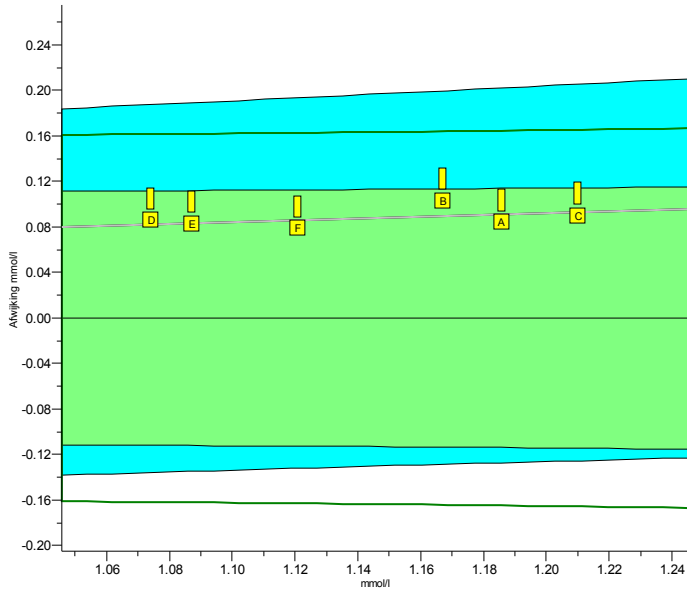
Legend

- Enzymatic, automatic, kinetic
- Enzymatic, automatic, discrete
- Abell-Kendall reference values
- Overige methoden

# INPUTS 2013.1

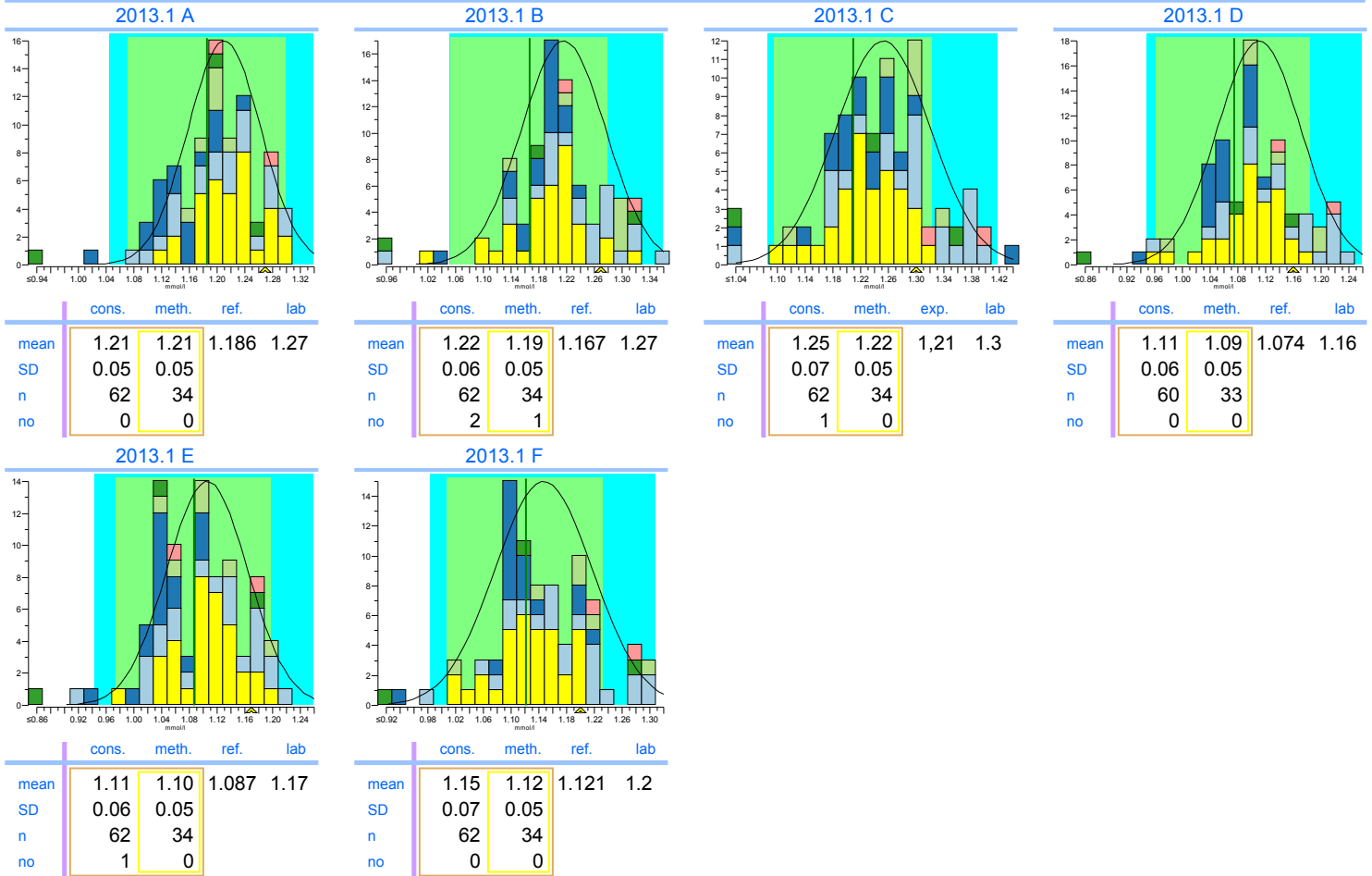
## HDL-Cholesterol

units: mmol/l



	2013.1	cumulative
Trueness	+7.7%	+7.7%
Precision	0.66%	0.66%
Number	6	6
Outliers	0	0
Sigma-TE	4.1	4.1
Sigma-SA	6.0 <span style="background-color: #008000; color: white; padding: 2px;">2</span>	6.0 <span style="background-color: #008000; color: white; padding: 2px;">2</span>
Score pictogram		
Regression line	<u>0.00 + 1.077.x</u>	<u>0.00 + 1.077.x</u>

Consensus group	Direct
Method	PEG modified enzyme, PEGME (Kyowa Medex)



Legend

- PEG modified enzyme, PEGME (Kyowa Medex)
- Accelerator Selective Detergent (=Ultra HDL\*)
- Immunoinhibition
- Catalase method (Denka Seiken)
- Overige methoden
- Precipitation Technique